Dec 08, 2009 1:26pm PLOTTED BY: jryentuis SAVED BY: jryentuis
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ESTIMATE OF QUANTITIES
FOR BIDDING

279 FT. – 8" WATER MAIN } DUCTILE IRON, PUSH–ON RUBBER, GASKET JOINT

1 EA. 12"x 8" REDUCER (SEB)
1 EA. 8" SLEEVE
1 EA. 8" VALVE
1 EA. VALVE BOX – DD

GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE MILWAUKEE WATER WORKS STANDARD SUBURBAN NOTES REGARDING WATER MAIN CONSTRUCTION", WHICH ARE ATTACHED AND ARE MADE A PART OF THESE WATER MAIN PLANS AND CONTRACT DOCUMENTS. THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM. THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED TO COMPLETE THIS PROJECT.

BACKFILL AND BEDDING MATERIAL

THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "THE MILWAUKEE WATER WORKS STANDARD SUBURBAN PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

SPECIFICATIONS

MATERIAL SPECIFICATIONS FOR FURNISHING MATERIALS MAY BE FOUND AT http://water.mpw.net/standardspecs.htm. LOCAL SUPPLIERS ALSO HAVE COPIES OF THE SPECIFICATIONS FOR ALL MATERIALS. COPIES ARE ALSO AVAILABLE ON REQUEST FROM THE CITY OF MILWAUKEE WATER ENGINEERING DIVISION.

MATERIAL INSPECTION

ALL MATERIALS WILL REQUIRE INSPECTION BY THE CITY.

THE CONTRACTOR SHALL ALLOW FOUR (4) WORKING DAYS NOTICE PRIOR TO START OF CONSTRUCTION FOR MATERIAL INSPECTION AND FOR SCHEDULING CONSTRUCTION INSPECTION. CONTRACTOR SHALL CONTACT MR. STEVEN BRENGOSZ AT 414–286–2391 OR 414–708–2808 FOR MATERIAL INSPECTION AND THE CITY OF MILWAUKEE'S CONSTRUCTION SECTION AT 414–286–2497 FOR INSTALLATION INSPECTION

EXISTING WATER MAIN SHUT–OFF

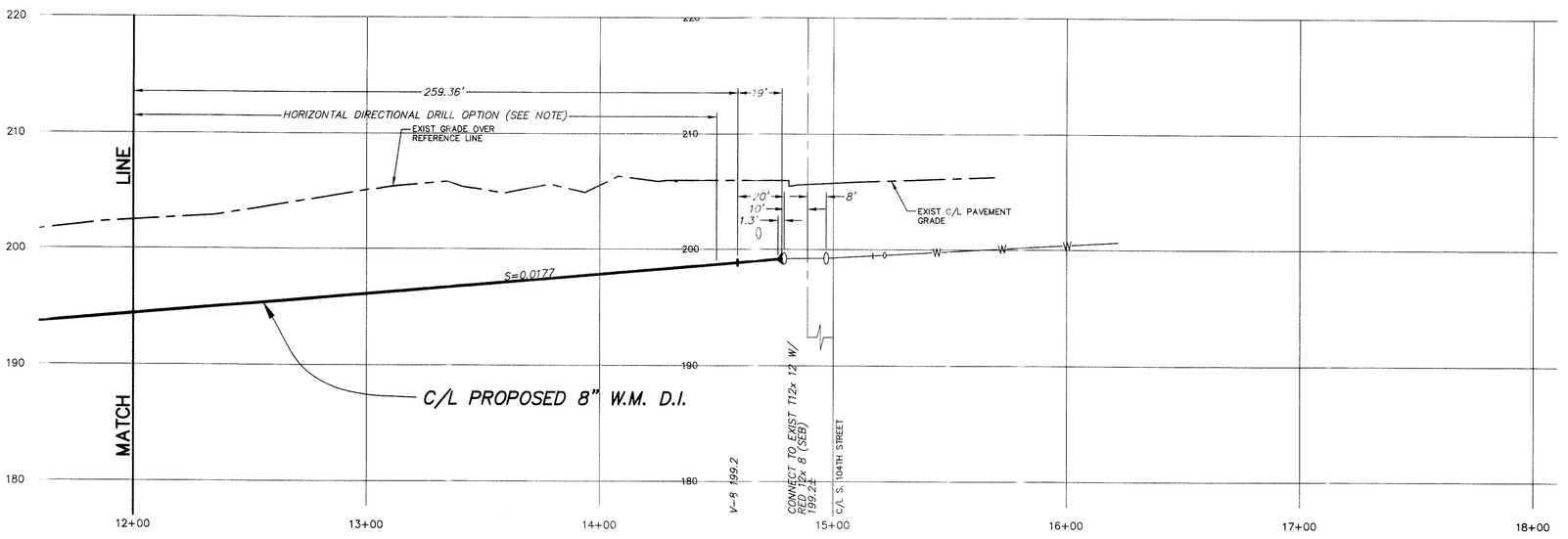
THE MILWAUKEE WATER WORKS WILL SHUT OFF THE EXISTING WATER MAIN AND PROVIDE TEMPORARY HOSE CONNECTIONS TO AFFECTED SERVICES AS REQUIRED. PLEASE CONTACT MR. STEVEN CIANCIOLA OF THE CONSTRUCTION SECTION AT 414–708–3887, THREE (3) DAYS PRIOR, TO SCHEDULE THE NECESSARY SHUT–OFFS AND/OR CONNECTIONS.

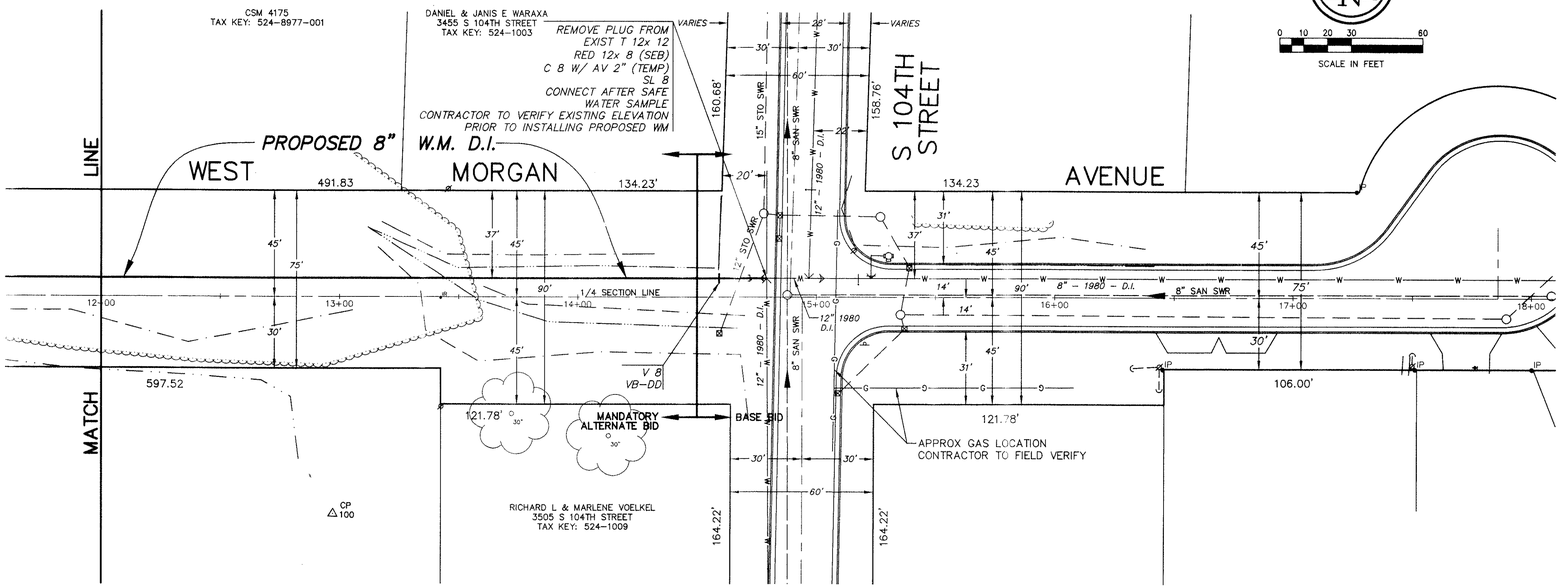
VALVE BOX BASE ADAPTORS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTORS, *ADAPTOR II* AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTOR SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTOR SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

PRESSURE TESTING

PREPARATION FOR TESTING MAINS, SEC. 5.17.2, SHALL BE MODIFIED TO INCLUDE THE FOLLOWING: PRIOR TO TESTING THE WATER MAIN THE CONTRACTOR SHALL INSTALL ANY "NEW" WATER SERVICE PIPING TO THE CURB STOP AND ANY "NEW" BRANCH PIPING TO THE LOT LINE. CORPORATION STOPS AND BRANCH VALVES SHALL BE TESTED THE THE OPEN POSITION. WHERE EXISTING SERVICE AND BRANCH PIPING IS TO BE RECONNECTED, THE WATER MAIN PRESSURE TEST SHALL BE TESTED AGAINST THE NEW CORPORATION STOPS AND BRANCH VALVES IN THE CLOSED POSITION.





BENCH MARK: HYDRANT AT NORTHEAST CORNER OF INTERSECTION OF WEST MORGAN AVENUE AND SOUTH 108TH STREET (STH "100")
HYDRANT TAGNUT 188.40
HYDRANT STEAMER 188.68

PLAN LINE & UTILITY LEGEND

GAS —G—		SANITARY SEWER — 9" SAN SWR —	STREET LIGHTING
ELECTRIC —E—		STORM SEWER — 9" STO SWR —	CITY UNDERGROUND CONDUIT —CON—
TELEPHONE —T—		COMBINED SEWER — 9" COMB SWR —	PROPOSED CURB / PVMT
CABLE TELEVISION —C—		WATER MAIN — W "6"–YEAR–D.I. W —	PAVING LIMITS
FIBER OPTICS —FO—		WATER SERVICE —W—	STRUCTURE / BUILDING
PROPOSED UTILITY		PRESSURE DISTRICT	FENCE —X—X—X—X—
DITCH		EDGE OF PAVEMENT	EDGE OF CONCRETE
TOP OF BANK		EDGE OF GRAVEL	TREE LINE

POWER POLES ○–CONCRETE □–ALUMINUM ⊗–WOOD
WATER MAIN VALVES —|–GATE —●–BUTTERFLY ○–W–SERVICE
UTILITIES ⊡–TRAFFIC SIGNAL ⌸–TRAFFIC CONTROL BOX ♂G–GAS VALVE
HYDRANTS ♁–1 NOZZLE ♁–3 NOZZLE
T–TELEPHONE BOX Ⓣ–TELEPHONE MANHOLE ⊠–STORM INLET ◯–SEWER MANHOLE ⊙MWEL–MONITORING WELL
♂P–POST ●IP–IRON PIPE ■–MONUMENT PK–PK NAIL ⊗–BENCH MARK

HORIZONTAL DIRECTIONAL DRILL

IF THE HORIZONTAL DIRECTIONAL DRILLING METHOD IS USED TO INSTALL THE WATER MAIN FROM SOUTH 104TH STREET TO 100' EAST OF SOUTH 106TH STREET, THE REQUIREMENTS SHALL BE AS FOLLOWS:

–INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND CITY OF MILWAUKEE SPECIFICATIONS FOR HORIZONTAL DIRECTIONAL DRILLING (HDD) DUCTILE IRON WATER MAIN DATED MARCH 10, 2009.

–ASSEMBLY AND INSTALLATION SHALL BE EXECUTED USING THE CARTRIDGE ASSEMBLY METHOD.

–ALL PIPE INSTALLED VIA HDD SHALL BE DOUBLE WRAPPED WITH POLYETHYLENE.

–PIPE SHALL BE INSTALLED SPIGOT END FIRST ORIENTATION.

–DUCTILE IRON PIPE FOR HDD SHALL BE US PIPE TR FLEX OR APPROVED EQUAL.

–MANUFACTURER'S REPRESENTATIVE TO BE PRESENT FOR JOINT ASSEMBLY AND HDD OPERATIONS.

–CONTRACTOR SHALL PROVIDE DAILY RECORDS OF DRILLING OPERATIONS AND AN AS–BUILT CONSTRUCTION DRAWING INDICATING THE ACTUAL LOCATION OF WATER MAIN BOTH IN PLAN AND PROFILE.

CALL DIGGERS HOTLINE
1–800–242–8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

CITY OF GREENFIELD
MILWAUKEE COUNTY WISCONSIN
APPROVED BY: CITY ENGINEER ... CITY CLERK–GREENFIELD DATE
FILE NO. 2002 #12

Ruekert·Mielke engineering solutions for a working world
W239 N2060 Ridgeview Parkway • Waukesha, WI 53188-1000
(262) 542-5733 • Fax (262) 542-5611 • www.ruekert-mielke.com
R/M PROJECT NUMBER 8083013.200
SHEET 1

NO.	BY	REVISION	DATE

WISCONSIN SEAN M. SULLIVAN 34651 PEWAUKEE, WI PROFESSIONAL ENGINEER
12-10-09

R/M PROJECT NO. 8083013.210 * SHEET WTR–01
CITY OF GREENFIELD

MILWAUKEE water works Water Engineering
Department of Public Works

WATER MAIN

IN: WEST MORGAN AVENUE
FROM: SOUTH 104TH STREET
TO: SOUTH 108TH STREET (STH "100")

SCALE: HORIZONTAL 1"= 30' VERTICAL 1"= 6'		APPROVED	DATE 12-28-09
1/4 SEC. NO. 524		MAWE DESIGN ENGINEER	
PLAN DATE: NOV. 2009			12-28-09
DRAWN BY: JTN		CHIEF DESIGN ENGINEER	
CHECKED BY: RJS			12/28/09
SURVEY BY: RJM		SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
PROGRAM NO. 2009–811	CONTRACT NO. PRIVATE	C.C. FILE NO.	
WORK ORDER WT440096407	O.N. & PROJECT NO.	DATE ADOPTED	

SHEET NO. 1 OF 3 PLAN FILE NO. 2009129

2-1428